

- STIRTON, R. A. 1929. Artiodactyla from the fossil beds of Fish Lake Valley, Nevada. Univ. Calif. Geol. Sci. Bull. 18:291-302.
- . 1939. Nevada Miocene and Pliocene mammalian fauna as faunal units. 6th Pacif. Sci. Congr. Proc. 2:627-640.
- WOLFE, J. A. (in press). Miocene floras from Fingerrock Wash, southwestern Nevada. U. S. Geol. Survey Prof. Pap. 454N.

DOCUMENTED CHROMOSOME NUMBERS OF PLANTS

Beginning with this issue, *Documented Chromosome Numbers of Plants* will appear in a new format. The reasons for this are several: 1. preparation of the manuscript for the printer is easier and there is less chance for error; 2. a paragraph rather than a tabular arrangement is less expensive to set in type; and 3. additional kinds of information can be included more readily. At times it may be desirable to include a sentence or two explaining the significance of a particular count, to comment on it briefly, to include a photomicrograph or a figure, or to make a new combination. It is to be understood that the collector and the counter are the same unless otherwise noted. For further instructions see Madroño 9:257-259. 1948.

Aquilegia nevadensis Boiss. $2n = 14$. Spain, Sierra Nevada, Puerto de la Ragua. Merxmüller & Grau in 1962, M. Counted by Grau.

Artemisia nana Gaud. $2n = 18$. Switzerland, Wallis, Saas. Zollitsch in 1961, M. Counted by Damboldt.

Bouteloua brevisetata Vasey. $n = 20$. Texas, Presidio Co. F. W. Gould 9718, TAES.

B. rothrockii Vasey. $n = 20$. Arizona, Pinal Co. F. W. Gould 10028, TAES.

Bromus macrostachya Desf. $n = 28$. Texas, Brazos Co. F. W. Gould 9513, TAES.

Carduus argyroa Kze. $2n = 26$. Italy, Sicily, Syracuse. Podlech in 1961, M.

C. velebiticus Borb. $2n = 16$. Yugoslavia, Dalmatia, Zadar. Podlech in 1960, M.

Carex acutiformis Ehr. $2n = 78$. Germany, Bavaria, München. Hertel in 1963, M. Counted by Dietrich.

C. alba Scop. $2n = 54$. Germany, Bavaria, Pupplinger Au. Klofat in 1963, M. Counted by Dietrich.

C. argyroglochis Horn. $2n = 68$. Germany, Bavaria, Garmish. Oberwinkler in 1963, M. Counted by Dietrich.

C. atrofusca Schkur. $2n = 40$. Switzerland, Silvretta, oberes Fimbetal. Dietrich in 1963, M.

C. austroalpina Bech. $2n = 38$. Italy, Riveria, Alassio. Podlech in 1960, M. Counted by Dietrich.

C. brizoides Jusl. $2n = 58$. Germany, Bavaria, Reichenhall. Oberwinkler in 1963, M. Counted by Dietrich.

C. camposii Boiss. & Reut. $2n = 68$. Portugal, Sierra de Maraon. Poelt in 1962, M. Counted by Dietrich.

C. cuprea (Kük.) Nelm. $2n = 70$. Nyasaland, Lake Kauline, Nyaka Plateau. Robinson in 1959, M. Counted by Dietrich.

C. curvata Knaf. $2n = 58$. Germany, Bavaria, Regensburg. Dietrich in 1963, M.

C. durieui Steud. $2n = 52$. Spain, Prov. Oviedo, El Pedregal. Merxmüller in 1962, M. Counted by Dietrich.

C. ericetorum Poll. var. *approximata* (All.) K. Richt. $2n = 30$. Switzerland, Graubünden, Ardez. Dietrich in 1963, M.

C. flavella Krecz. $2n = 60$. Italy, Dolomites, Prodoiojoch. Podlech in 1961, M. Counted by Dietrich.

Carex frigida All. $2n = 58$. France, Dep. Alpes Maritimes, Tende. *Poelt* in 1963, M. Counted by *Dietrich*.

C. grioletii Roem. $2n = 48$. Italy, Riviera, Val Seborino. *Patzke* in 1963, M. Counted by *Dietrich*.

C. halleriana Asso. $2n = 50$. Italy, Riviera, Alassio. *Podlech* in 1963, M. Counted by *Dietrich*.

C. mucronata All. $2n = 34$. Austria, Lechtaler Alpen, Stockach. *Oberwinkler* in 1963, M. Counted by *Dietrich*.

C. ornithopoda Willd. var. *elongata* (Leyb.) A. & G. $2n = 54$. Switzerland, Graubünden, Ardez. *Dietrich* in 1963, M.

C. parviflora Host. $2n = 54$. Switzerland, Silvretta, oberes Fimbetal. *Dietrich* in 1963, M.

C. pauciflora Lightf. $2n = 76$. Austria, Silvretta, unteres Fimbetal. *Dietrich* in 1963, M.

C. praecox Schreb. $2n = 58$. Germany, Bavaria, Regensburg. *Dietrich* in 1963, M.

C. supina Wahlenb. $2n = 38$. Italy, Vintschgau, Laas. *Wiedmann & Grau* in 1963, M. Counted by *Dietrich*.

C. umbrosa Host. $2n = 62$. Germany, Bavaria, München. *Oberwinkler & Dietrich* in 1963, M. Counted by *Dietrich*.

Chaetopappa asteroides DC. $n = 8$. Kansas, Woodson Co. *E. B. Smith 289*, KANU.

Crocidium multicaule Hook. $n = 9_{II}$. California, Trinity Co., 3 mi e of Burnt Ranch. *R. Spellenberg 32*, UC.

Digitaria patens Henr. (*Trichachne patens* Swallen). $n = 36$. Texas, Mason Co. *F. W. Gould 8684*, TAES.

Eleocharis acicularis R. & S. $n = 10$. Kansas, Harvey Co. *Harms & McGregor 1222*, KANU. Counted by *L. J. Harms*, KANU.

E. arenicola Torr. $n = 10$. Mexico, San Luis Potosi, near Tamazunchale. *L. J. Harms et al. 730*, KANU.

E. atropurpurea (Retz.) J. & C. Presl. $n = 10$. Kansas, Harvey Co. *Harms & McGregor 1228*, KANU. Counted by *L. J. Harms*, KANU.

E. compressa Sulliv. $n = 9$. Kansas, Clark Co. *L. J. Harms 1121*, KANU.

E. engelmannii Steud. $n = 5$. Kansas, Cherokee Co. *L. J. Harms 1175*, KANU.

E. nervata Svens. $n = 5$. Mexico, San Luis Potosi, near Tamazunchale. *L. J. Harms et al. 731*, KANU.

E. obtusa (Willd.) Schultes. $n = 5$. Kansas, Bourbon Co. *L. J. Harms 1091*, KANU.

E. parvula (R. & S.) Link var. *anachaeta* (Torr.) Svens. $n = 4$. Kansas, Republic Co. *L. J. Harms 1209*, KANU.

Eragrostis lehmanniana Nees. $n = 20$. Texas, Hudspeth Co. *F. W. Gould 9535*, TAES.

Eriochloa punctata (L.) Desv. $n = 18$. Texas, San Patricio Co. *F. W. Gould 9507*, TAES.

Franklinia alata Marsh. $n = 18$. Hort. Arnold Arb. *R. Dudley 2728-3-C*, AAH. Counted by *L. Rüdénberg*, GH.

Helianthus debilis Nutt. var. *cucumerifolius* (T. & G.) Gray. $n = 17$. Texas, Wharton Co. *E. B. Smith 255*, KANU. Counted by *R. R. Johnson* and *E. B. Smith*, KANU.

Jaumea carnosa (Less.) Gray. $2n = 19_{II}$. California, Humboldt Co., near Humboldt Bay. *D. E. Anderson 2812*, UC.

Lithospermum cinereum DC. $2n = 26$. Southwest Africa, Windhoek. *Volk* in 1956, M. Counted by *Grau*.

Lolium temulentum L. $n = 7$. Texas, Anderson Co. *F. W. Gould 9521*, TAES.

Lycurus phleoides Kunth. $n = 20$. Texas, Pecos Co. *F. W. Gould 9731*, TAES.

Moehringia dasyphylla Bruno. $2n = 24$. France, Dep. Alpes Maritimes, Fontan.

Grau in 1932, M.

Moehringia markgrafii Merxm. & Guterm. $2n = 24$. Italy, Brescian Alps, Vestone. Merxmüller & Wiedmann in 1956, M. Counted by Grau.

M. papulosa Bert. $2n = 24$. France, Dep. Alpes Maritimes, Tende. Merxmüller & Grau in 1962, M. Counted by Grau.

M. tommasinii Marchesetti. $2n = 24$. Yugoslavia, Istria, Osp. Merxmüller & Wiedmann in 1960, M. Counted by Grau.

Mucizonia hispida Berger. $2n = 16$. Spain, Prov. Malaga, Grazalema. Merxmüller & Grau in 1962, M. Counted by Grau.

Omphalodes verna Moench. $2n = 48$. Italy, Riviera, Alassio. Podlech in 1963, M. Counted by Grau.

Onosma cinerascens Br. Bl. $2n = 28$. Italy, Cottian Alps, Foreso. Merxmüller & Grau in 1963, M. Counted by Grau.

O. frutescens Lam. $2n = 14$. Greece, Arkadia, Vitina. Reehinger in 1958, M. Counted by Grau.

O. tridentinum Wettst. $2n = 28$. Italy, Vintschgau, Kastelbel. Grau in 1963, M.

Oxytropis amethystea Arv.-Touv. $2n = 16$. France, Dauphiné, Col de Glaize. Gutermann in 1960, M. Counted by Damboldt.

Palafoxia callosa (Nutt.) T. & G. $n = 10$. Texas, McCulloch Co. E. B. Smith 232, KANU. Counted by E. B. Smith and R. R. Johnson, KANU.

Panicum texanum Buckl. $n = 27$. Texas, Starr Co. F. W. Gould 8157, TAES.

Paspalum distichum L. $2n = 20_{II}$. California, Humboldt Co., Fish Lake. D. E. Anderson 2846, UC.

Quincula lobata (Torr.) Raf. $2n = 11_{II}$. Texas, Presidio Co. D. E. Anderson 2574, UC: Texas, Val Verde Co. D. E. Anderson 2593, UC.

Scleropoa rigida (L.) Griseb. $n = 7$. Texas, Walker Co. F. W. Gould 7519, TAES. This collection was reported earlier as *Festuca octoflora* Walt. (Gould, F. W. Am. Jour. Bot. 45:764. 1958).

Sporobolus contractus Hitchc. $n = 18$. New Mexico, Eddy Co. F. W. Gould 9541, TAES.

S. virginicus (L.) Kunth. $2n = 10_{II}$. Texas, Cameron Co. D. E. Anderson 2772, UC.

Willkommia texana Hitchc. $n = 30$. Texas, San Patricio Co. F. W. Gould 8606, TAES.

NOTES AND NEWS

A NOTE ON THE TYPE LOCALITY OF *TETRACOCCLUS ILICIFOLIUS*.—The type locality of *T. ilicifolius* Cov. & Gilm. (Jour. Wash. Acad. 26:530. 1936), as stated in the original description, is in Fall Canyon on the west slope of the Grapevine Mountains, Death Valley, California, at 2000 ft elevation. The 15 plants located were "chiefly in crevices in the rock wall of the canyon which at this point consists chiefly of rhyolite," and "the fewness of the plants and scarcity of fruit are evidence that the plant is in the process of extinction." An isotype in the Death Valley National Monument herbarium is labeled in Gilman's handwriting as having been collected at 4000 ft. On April 11, 1963 a search was made from 2000 ft to over 4000 ft elevation in Fall Canyon and the only plants of *T. ilicifolius* encountered were at 3200 ft about four miles above the mouth of the canyon in crevices in the limestone wall. Estimates were made of the size of the plants: two had crown diameters of more than 4 ft, eight had crown diameters of 2–4 ft, and nine had crown diameters of less than 2 ft, a total of 19 plants. Judging from the distribution of shrub size, the stand appears to be maintaining itself, although no seedlings were observed and there was little evidence of fruiting. The vigor of the plants was comparable to that of individuals in a stand of several hundred shrubs in the Panamint Mountains. It is concluded that the stand at 3200 ft in Fall Canyon is the type locality.—H. THOMAS HARVEY, Department of Biological Sciences, San Jose State College.